Serial No. 10/700,310 Docket No. NG(ST)6564

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Previously Presented) A multi-carrier transmitter assembly, comprising:
- a digital exciter that provides a digital multi-carrier signal from baseband data, the digital multi-carrier signal comprising a plurality of time interleaved digital signals;
- a digital-to-analog converter that converts the digital multi-carrier signal into an analog multi-carrier signal:
- a signal distributor that deserializes the analog multi-carrier signal into a plurality of analog carrier signals, the signal distributor comprising a time division demultiplexer that separates the plurality of time interleaved analog signals into the plurality of analog carrier signals:
- at least one stopband filter having at least one stopband, each of the at least one stopband having an associated center frequency, the digital exciter being operative to adjust the respective center frequencies of the at least one stopband;
- a plurality of antennas, each of the plurality of antennas transmitting at least one of the plurality of analog carrier signals.

2. (Cancelled)

- (Previously Presented) The assembly of claim 1, the at least one stopband filter comprising a surface acoustic wave (SAW) filter having at least one electrically actuatable micromechanical structures.
- 4. (Previously Presented) The assembly of claim 1, the signal distributor further comprising at least one passband filter having at least one passband, each of the at least one passband having an

associated center frequency, the digital exciter being operative to adjust the respective center frequencies of the at least one passband.

5. (Previously Presented) The assembly of claim 4, a given passband filter from the at least one passband filter having a plurality of passbands, each of the respective center frequencies of the plurality of passbands-being electrically adjustable by the exciter.

6. (Cancelled)

7. (Previously Presented) The assembly of claim 1, the at a given least one stopband filter from the at least one passband filter having a plurality of stopbands, each of the respective center frequencies of a the plurality of stopbands being electrically adjustable by the exciter.

8 and 9. (Cancelled).

- 10. (Original) The assembly of claim 1, the exciter and the digital-to-analog converter being located at a first location, and at least one of the plurality of antennas being located at a second location, spatially remote from the first location.
- 11. (Original) The assembly of claim 10, at least one antenna being located at a third location, spatially remote from the first location and the second location.
- 12-33. (Cancelled).
- 34. (Currently Amended): A method of transmitting a multi-carrier signal, comprising: generating a digital multi-carrier signal at an exciter; converting the digital multi-carrier signal into an analog multi-carrier signal;

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distributing the analog multi-carrier signal into a plurality of analog signals, where distributing the analog multi-carrier signal comprises filtering a plurality of copies of the multi-carrier analog signal at respective tunable filters, at least one of the tunable filters being a multiband tunable filter providing despreading signals to respective copies of the analog multi-carrier signal to recover the plurality of analog signals; and

providing the plurality of analog signals to respective antennas for transmission.

35-43. (Cancelled).

- 44. (Previously Presented): A receiver assembly, comprising:
- a plurality of antennas that each receive an analog signal comprising at least one frequency band of interest and at least one frequency band containing an interfering signal;
- a signal combiner that combines at least two of the analog signals from the plurality of antennas into a multi-carrier signal;
- a bypass configured to allow an analog signal from at least one of the plurality of antennas to bypass the signal combiner;
- an analog-to-digital converter that creates a digital representation of the multi-carrier signal;
- a digital processing component that receives the digital representation of the multi-carrier signal and produces a control signal from the digital representation for each analog signal, representing an associated antenna, specifying the at least one frequency band containing the interfering signal; and
- a plurality of electrically adjustable stopband filters, each electrically adjustable stopband filter being associated with one of the plurality of antennas, a given electrically adjustable stopband filter being electrically adjustable to change respective associated center frequencies of at least one stopband associated with the filter in response to the control signal associated with the associated antenna of the given adjustable filter as to attenuate the specified at least one

frequency band within the analog signal received at the associated antenna of the given adjustable filter.

- 45-48. (Cancelled).
- 49. (Currently Amended) The receiver assembly of claim 44, the signal combiner further comprising at least one mixer for downconverting analog carrier signals, a given mixer being associated with a respective one of the at least one antennas and having an associated intermediate frequency.
- 50. (Previously Presented) The receiver assembly of claim 44, the signal combiner comprising a frequency multiplexer.
- 51. (Previously Presented) The receiver assembly of claim 44, the signal combiner comprising a code division multiple access multiplexer.
- 52. (Currently Amended) The receiver assembly of claim 44, the signal combiner further comprising a plurality of coders that provide respective spreading codes to the analog carrier signals, the respective spreading codes being mutually orthogonal.
- 53. (Cancelled).
- 54. (Previously Presented) The receiver assembly of claim 44, the analog-to-digital converter and the digital processing component being located at a first location, and a first of the plurality of antennas being located at a second location, spatially remote from the first location.

55. (Previously Presented) The receiver assembly of claim 54, a second of the plurality of antennas being located at a third location, spatially remote from the first location and the second location

56. (Previously Presented) A receiver assembly, comprising:

- a plurality of antennas that each receive an analog signal comprising at least one frequency band of interest and at least one frequency band containing an interfering signal;
- a code division multiplexer that combines the analog signals from the plurality of antennas into an analog multicarrier signal;
- an analog-to-digital converter that receives the multicarrier analog signal and creates a multicarrier digital signal comprising a representation of each analog signal in digital form;
- a digital processing component that receives the digital representation of each analog signal and produces a control signal from the digital representation for each analog signal, representing an associated antenna, specifying the at least one frequency band containing the interfering signal; and
- a plurality of electrically adjustable passband filters, each electrically adjustable passband filter being associated with one of the plurality of antennas, a given electrically adjustable passband filter being electrically adjustable to change respective associated center frequencies of at least one passband associated with the filter in response to the control signal associated with the associated antenna of the given adjustable filter as to attenuate the specified at least one frequency band within the analog signal received at the associated antenna of the given adjustable filter.

57-62. (Cancelled).

63. (Previously Presented) The receiver assembly of claim 56, the analog-to-digital converter and the digital processing component being located at a first location, and a first of the plurality of antennas being located at a second location, spatially remote from the first location.

64. (Previously Presented) The receiver assembly of claim 63, a second of the plurality of antennas being located at a third location, spatially remote from the first location and the second location.